

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREA: Claiborne, Copiah, Jefferson,
Lincoln Counties

STATE, Mississippi

TOTAL AREA WITHIN SURVEY BOUNDARY: 1,518,700 acres

NATIONAL FOREST OWNERSHIP WITHIN SURVEY BOUNDARY: 22,842 acres
Homochitto National Forest

DATES SURVEYED: 10/17-19/77

PERCENT COVERAGE: 50% (flight lines at 2 mile intervals)

AIRCRAFT: Cessna 206

CREW, U.S. Forest Service

C. W. Dull
R. F. Bassett

Mississippi Forestry Commission

G. Brown
J. Phillips
B. Thompson
D. Hammond
W. Buckles
J. Polk
C. Cupit

SURVEY OBJECTIVES: An aerial survey was conducted by the U.S. Forest Service, Aerial Survey Team and the Mississippi Forestry Commission to determine the location of southern pine beetle infestations within a four county area (Fig. 1). Foresters from the counties involved served as aerial observers for their respective counties.

SURVEY RESULTS

The number of spots (areas of red and fading pine trees) per county was as follows:

<u>County</u>	<u>No. Spots</u>
Copiah	68
Lincoln	22
Claiborne	16
Jefferson	8
Total	114

Spot size ranged from 1 to 200 trees. The area with the most intensive number of spots was found in eastern Copiah County and southwest Claiborne County (see attached maps).

CONCLUSIONS

The Mississippi Forestry Commission conducted an aerial survey for southern pine beetle detection in August 1977. The results of the current survey, compared to the previous aerial survey, reflect a reduction in the number of spots detected, but an increase in the number of fading and red pine trees per spot. Some of the small spots may have been masked by the early stages of fall coloration in hardwood foliage.

Many areas of standing dead pines were observed which appeared to no longer harbor southern pine beetle populations.

The Mississippi Forestry Commission is conducting a ground evaluation of the infestations observed on this survey to determine the potential of the outbreak.

For any additional information, Contact

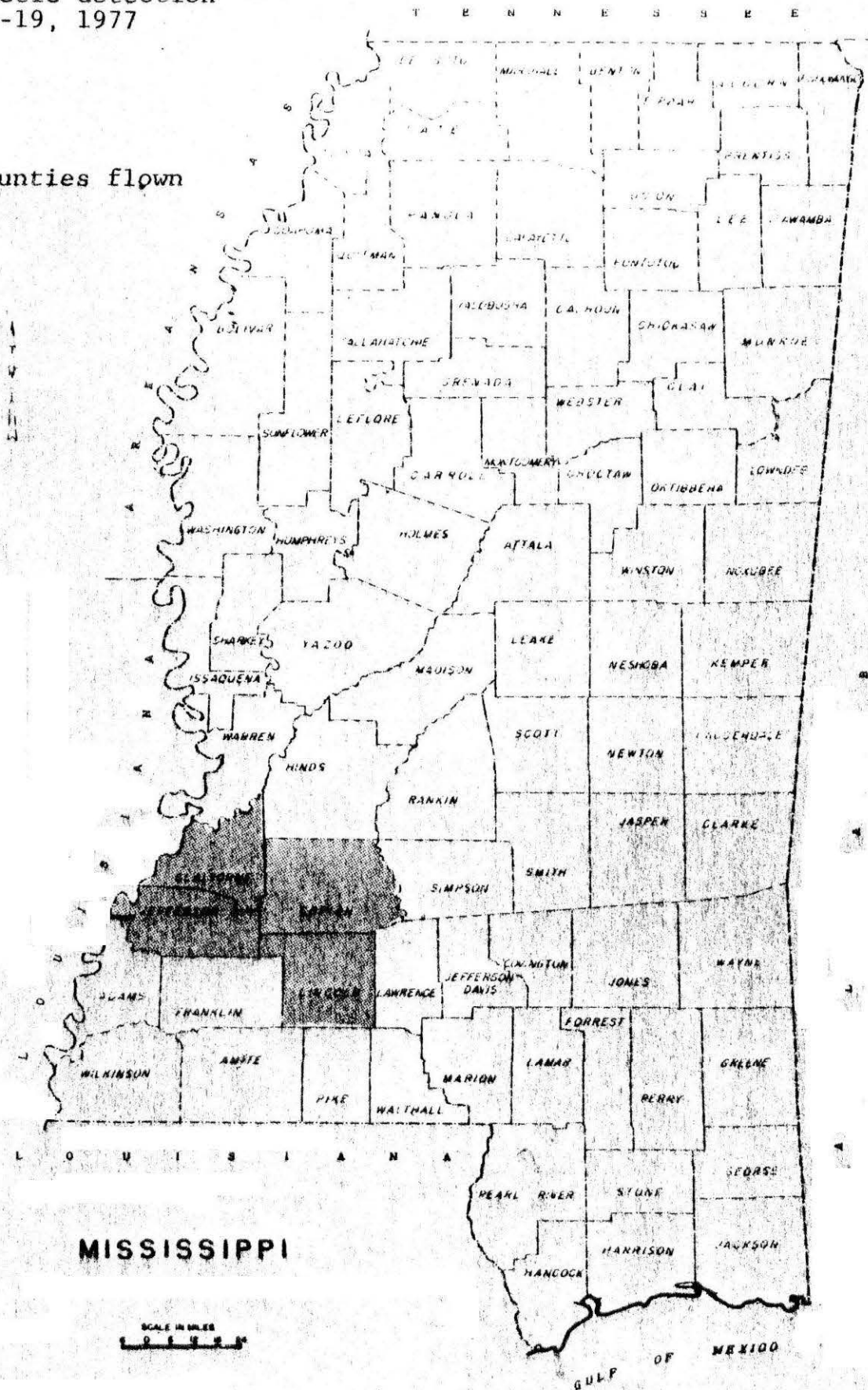
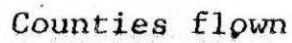
Forest Insect & Disease Management Unit, S&PF
USFS - Southeastern Area

Northgate Office Park, Room 2103
3620 Interstate 85, N.E.
Doraville, Ga. 30340
Telephone: 404-221-4796

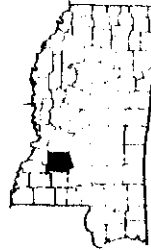
or 2500 Shreveport Highway
Pineville, La. 71360
Telephone: 318-445-6511

Figure 1.

Aerial survey for southern
pine beetle detection
Oct. 17-19, 1977



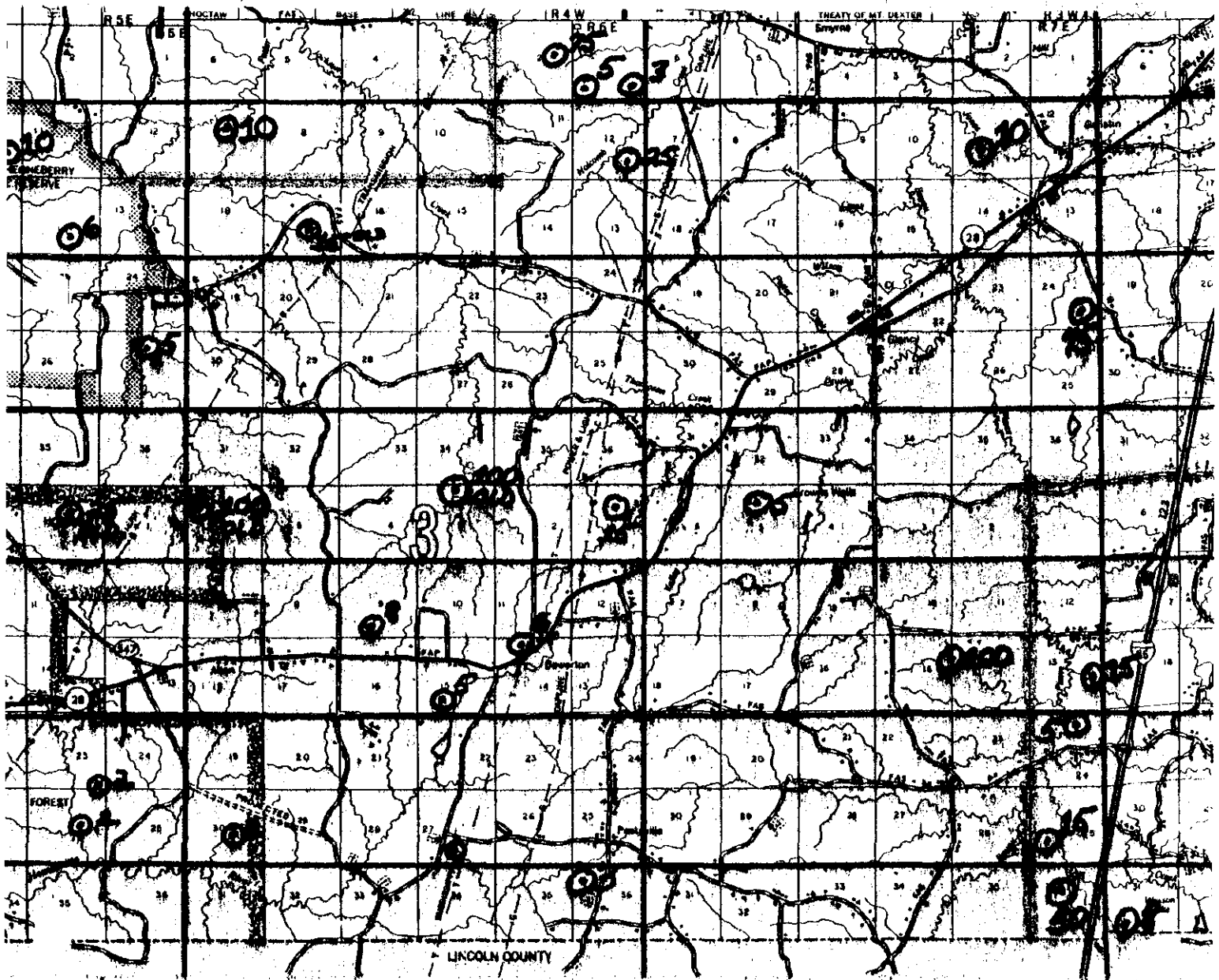
AERIAL SURVEY RESULTS COPIAH COUNTY MISSISSIPPI



○ Location of fading and red pines with estimated number of trees per spot

Survey conducted
Oct. 17-19, 1977

Scale: 1/2" = 1 mile



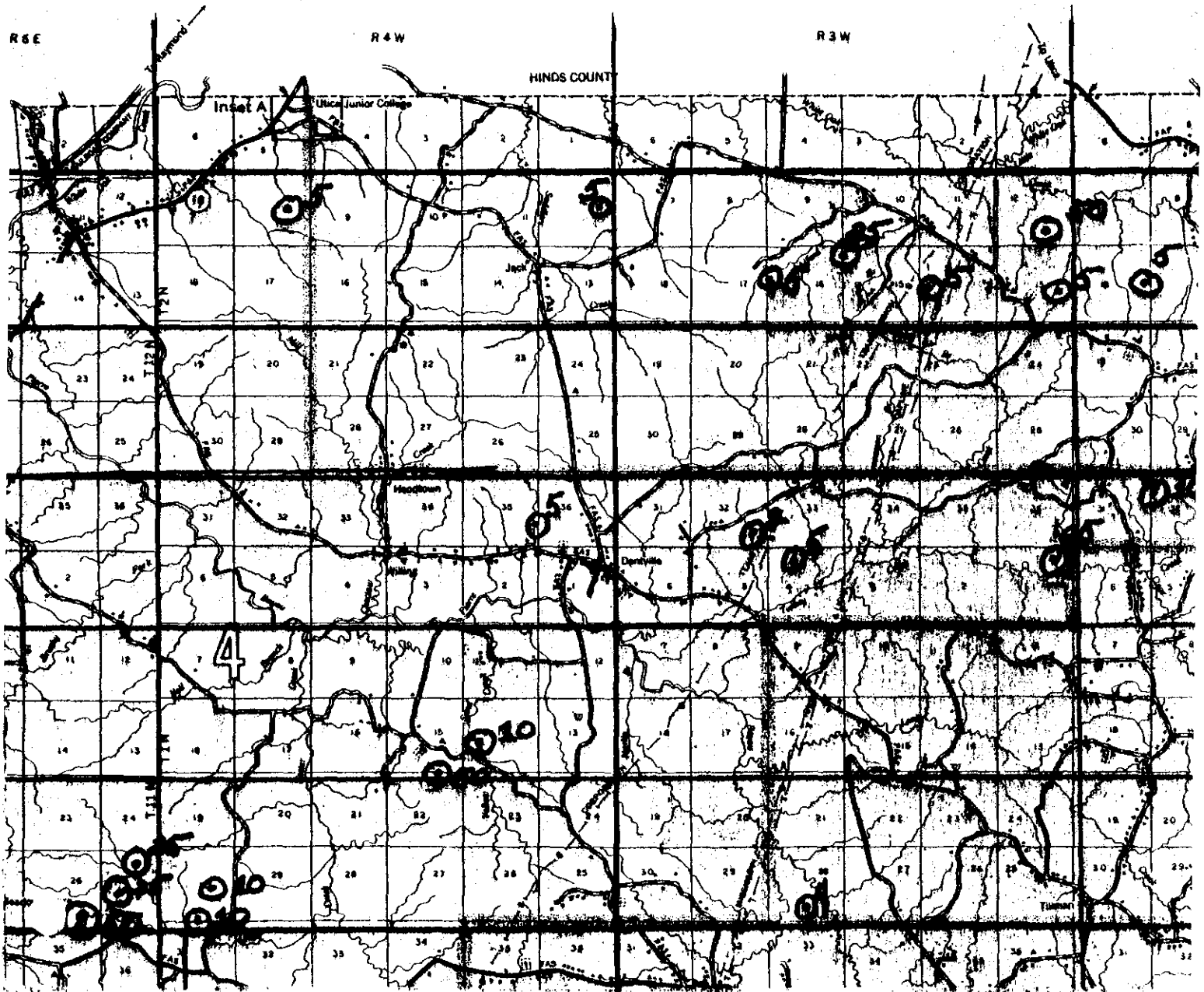
AERIAL SURVEY RESULTS
COPIAH COUNTY MISSISSIPPI



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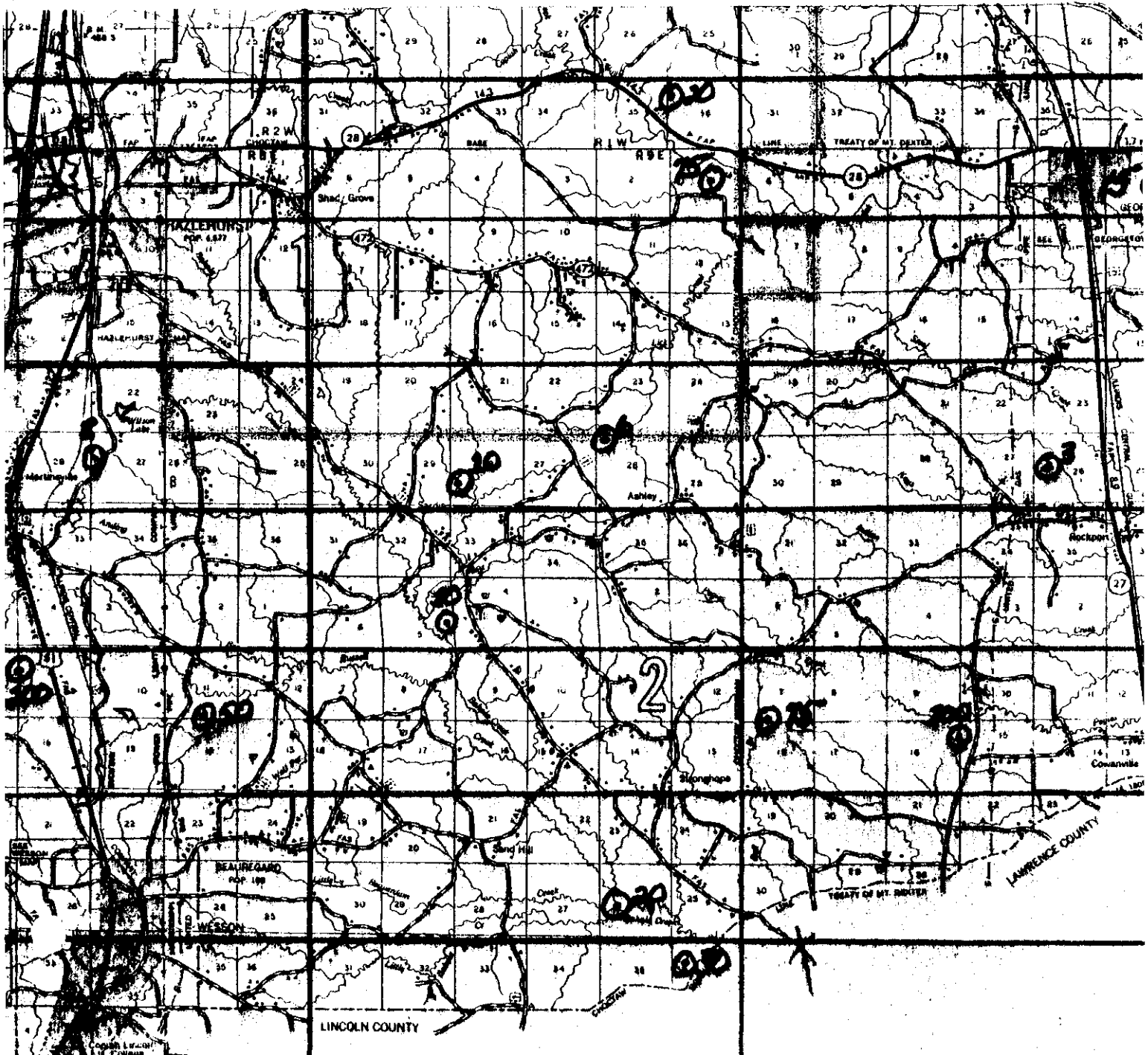
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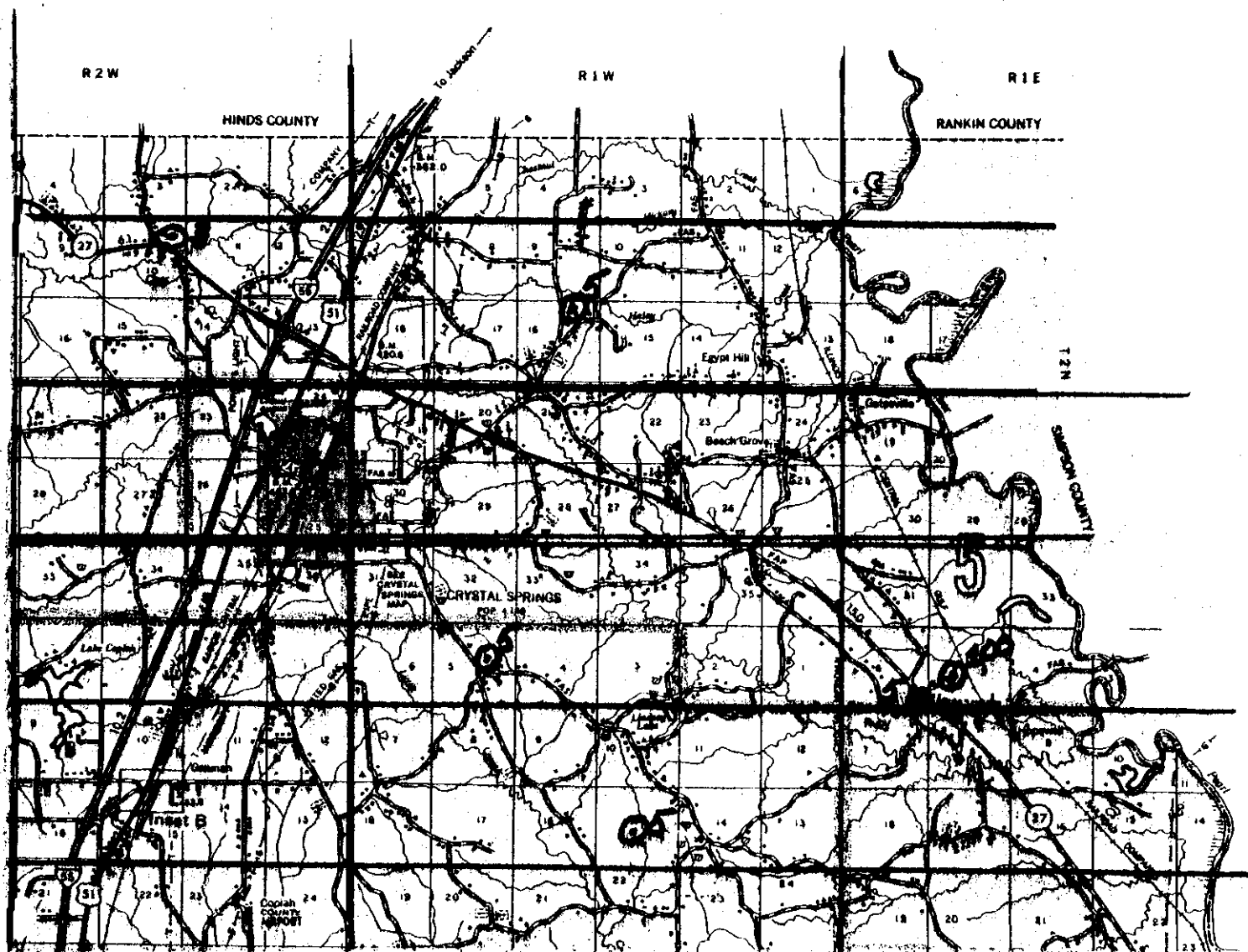
AERIAL SURVEY RESULTS COPIAH COUNTY MISSISSIPPI

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Survey conducted
Oct. 17-19, 1977



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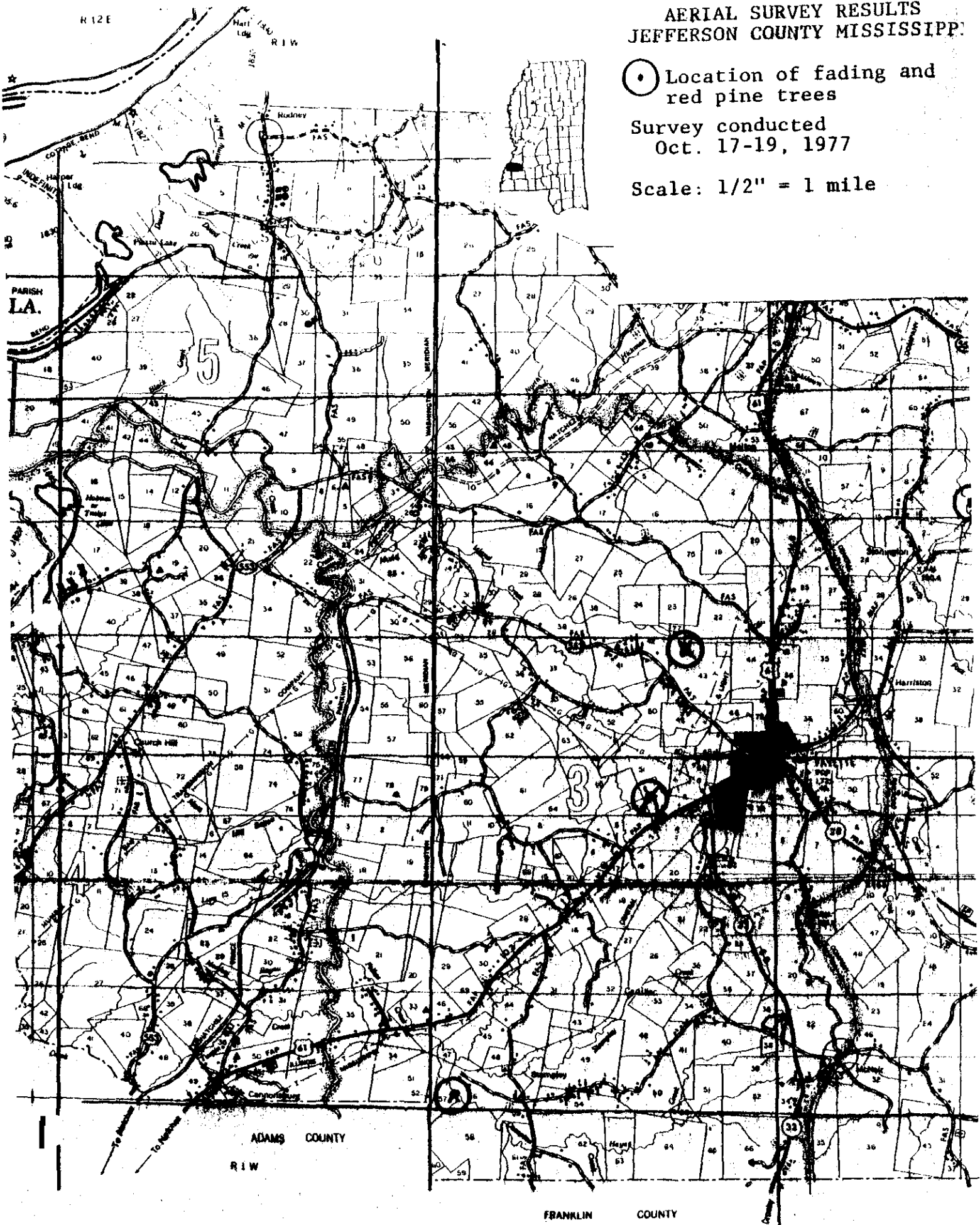
H 12 E

AERIAL SURVEY RESULTS JEFFERSON COUNTY MISSISSIPPI

○ Location of fading and red pine trees

Survey conducted
Oct. 17-19, 1977

Scale: 1/2" = 1 mile

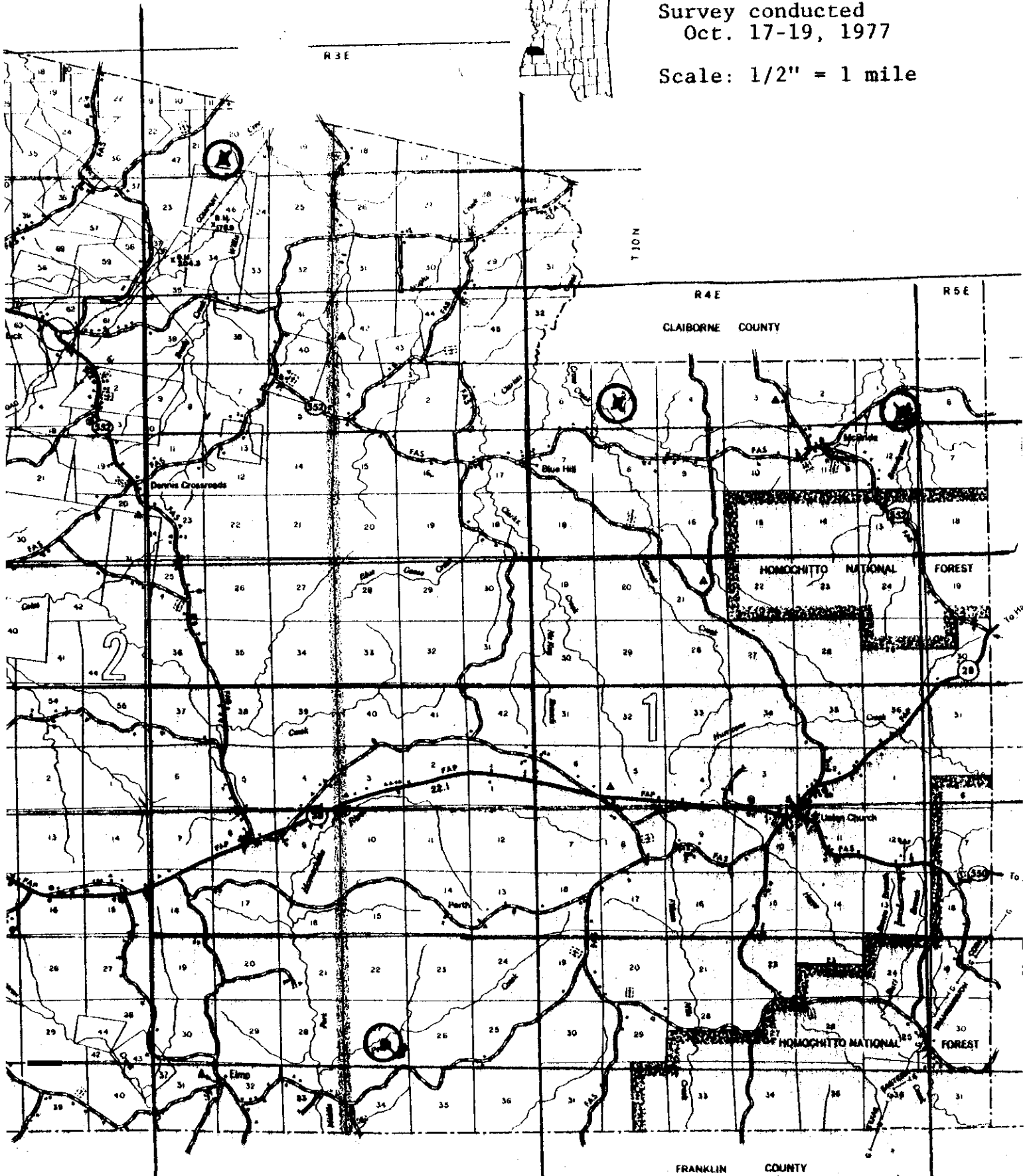


AERIAL SURVEY RESULTS
JEFFERSON COUNTY MISSISSIPPI

○ Location of fading and
red pine trees

Survey conducted
Oct. 17-19, 1977

Scale: 1/2" = 1 mile

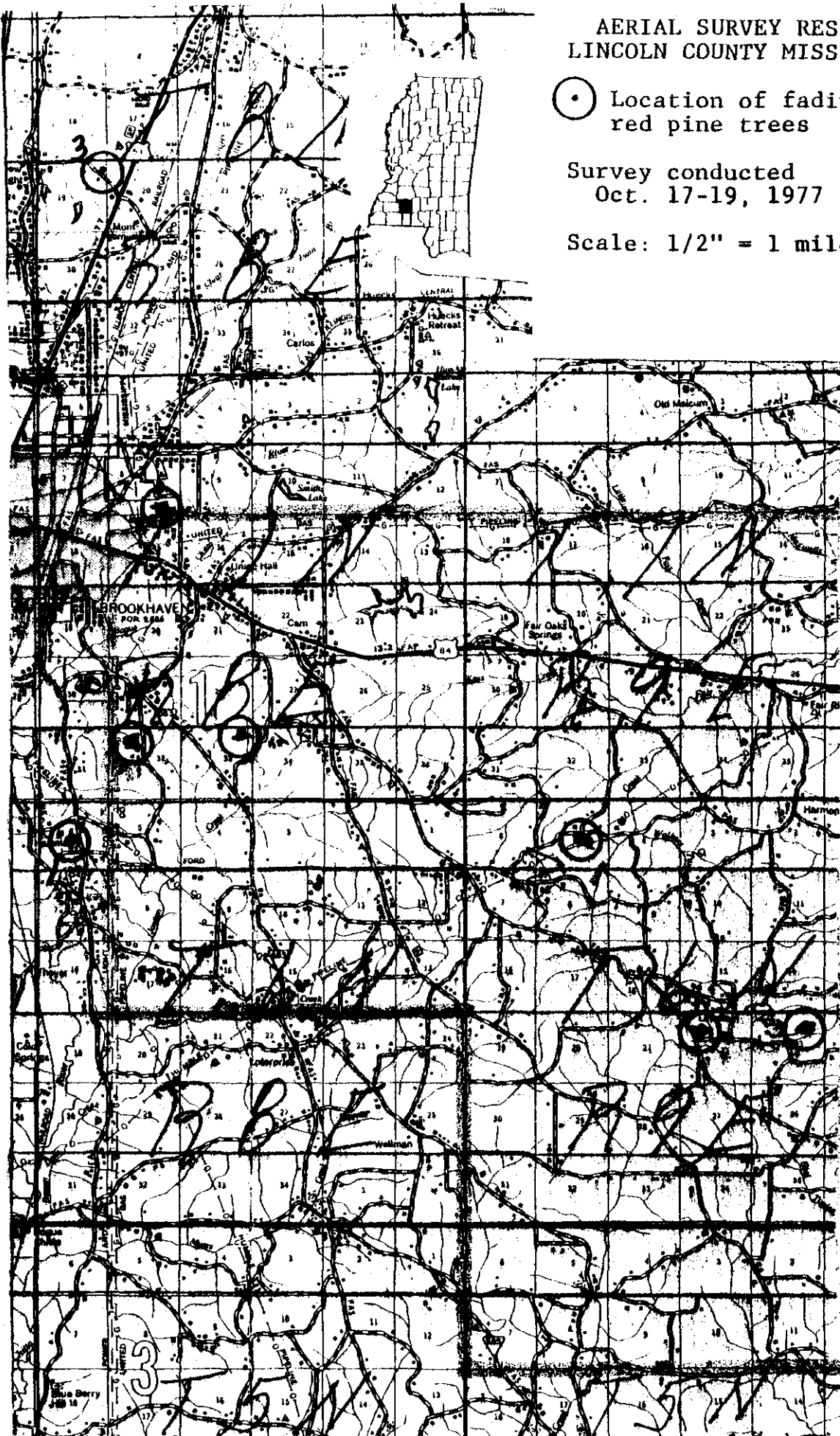


AERIAL SURVEY RESULTS
LINCOLN COUNTY MISSISSIPPI

○ Location of fading and
red pine trees

Survey conducted
Oct. 17-19, 1977

Scale: 1/2" = 1 mile

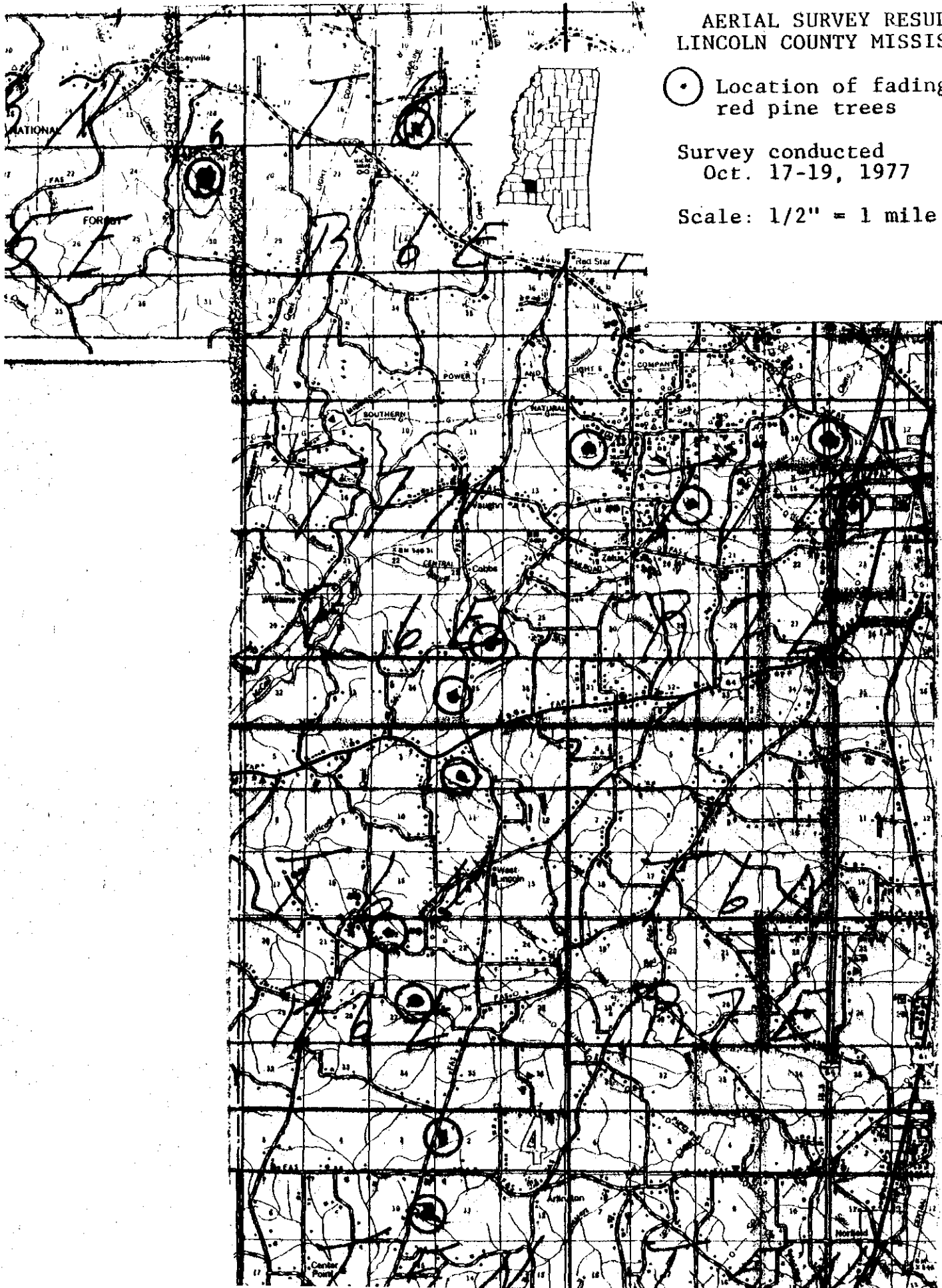


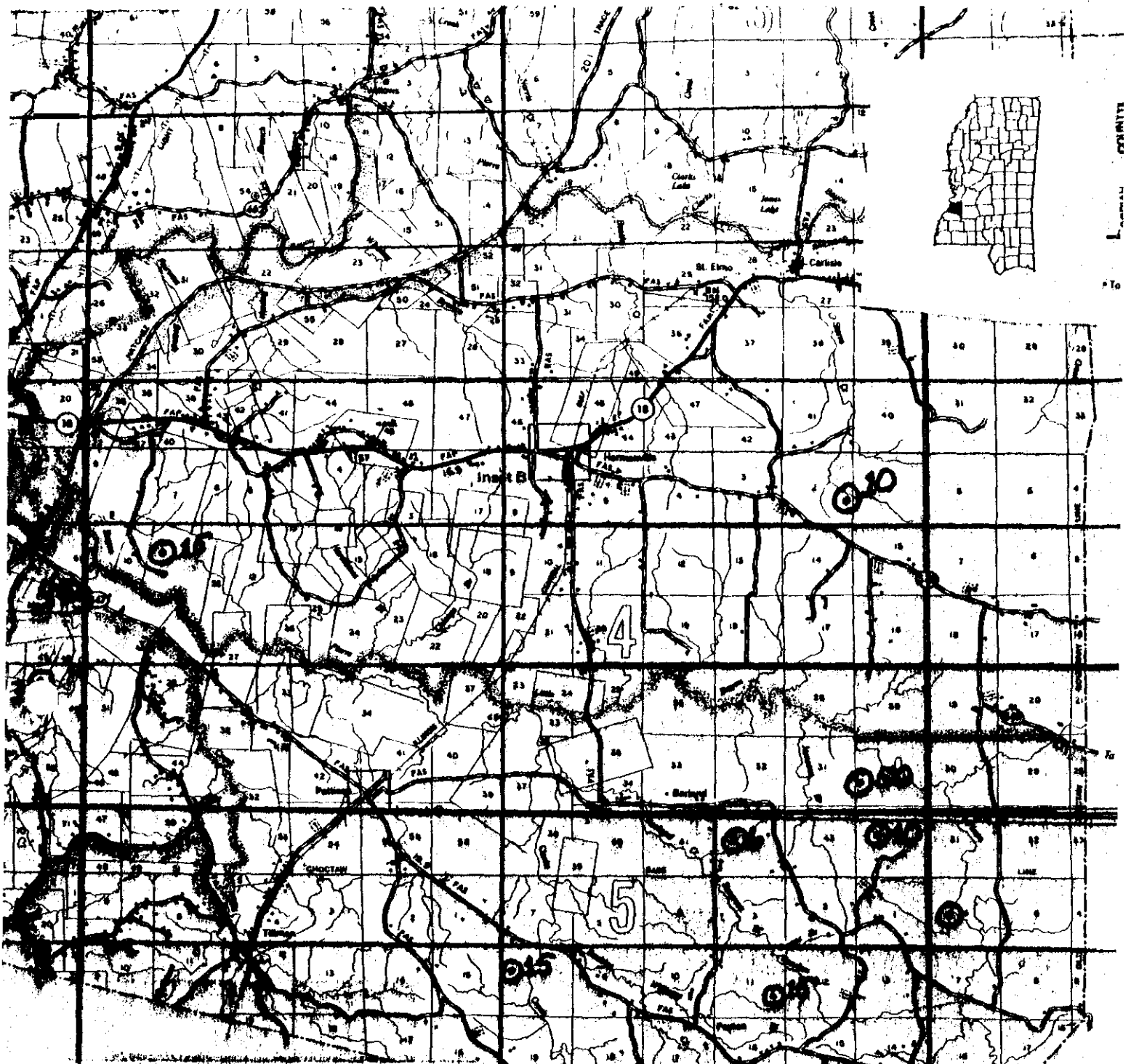
AERIAL SURVEY RESULTS
LINCOLN COUNTY MISSISSIPPI

○ Location of fading and
red pine trees

Survey conducted
Oct. 17-19, 1977

Scale: 1/2" = 1 mile





AERIAL SURVEY RESULTS CLAIBORNE COUNTY MISSISSIPPI

- Location of red and fading pines with estimated number of trees per spot.

Survey conducted
Oct. 17-19, 1977

Scale: 1/2" = 1 mile

JEFFERSON COUNTY

R 4 E

R 5 E